Title (en)

HIGH RESISTANCE POLYPROPYLENE MASS

Title (de)

POLYPROPYLENFORMMASSE MIT HOHER FESTIGKEIT

Title (fr)

MASSE EN POLYPROPYLENE A RESISTANCE ELEVEE

Publication

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Application

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- EP 9808487 W 19981229

Abstract (en)

[origin: WO9935430A1] The invention relates to a high resistance polypropylene tube, especially with a high modulus of elasticity in extension, high impact strength, annular rigidity and resistance towards knocks. The inventive tube is made of polypropylene and has a modulus of elasticity in extension of 1300-2300 N/mm<2> and an impact strength of 60-110 kJ/m<2>. The inventive tube is produced by extrusion of a plastic moulding material consisting of two constituents A and B of composition A) 80-98 mass parts of an isotactic polypropylene homopolymer as a coherent matrix constituent with a decade regularity of > 95 % and B) 2-20 mass parts of a copolymer, consisting of 50-70 mass parts of propylene and 30-50 mass parts of ethylene and/or other C4-C8- alpha -olefins as a dispersedly distributed elastomer component. The intrinsic viscosity ratio of both components B/A is 0.9-1.5 and the melt flow index of the moulding material is 0.15-0.8 g/10 min. The polypropylene tubes are suitable for use in waste water systems, especially as gully pipes, rainwater pipes, domestic drainpipes, or sound insulation pipes or shaft elements.

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